

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 2		
2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 09/06/01		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE					
US ARMY ENGINEER DISTRICT, HONOLULU CORPS OF ENGINEERS, BUILDING S-200 FORT SHAFTER, HAWAII 96858-5440 CONTRACT SPECIALIST: JODY MURAOKA							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. <input checked="" type="checkbox"/> DACA83-01-B-0004 9B. DATED (SEE ITEM 11) 08/06/01 10A. MODIFICATION OF CONTRACT/ORDER NO. 10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc). SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

FY01 BUP Barracks Repair, Builidng 503A, Fort Shafter, Oahu, HI

See Page 2 of 2 Pages

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF SIGNER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

1. **CHANGES TO THE SOLICITATION.** Attached hereto are new and revised pages to the solicitation. The revision mark "(Am-0003)" is shown on each new and revised page.

a. REVISED PAGES/PROVISIONS/CLAUSES/PARAGRAPHS. Following are revised pages to the solicitation. Changes are indicated in **bold** print. Although the entire sections are being re-issued under Am-0003, only the following pages/provisions/clauses/paragraphs changed in these sections.

Section 01000

Section 08520, Paragraph 2.4.4

b. DELETED PAGES. The following pages are deleted from the solicitation.

Section 01000

Project Table of Contents, Pages 1 and 2

Submittal Register, Pages 1 thru 23

Section 16710, Pages 1 thru 16

c. NEW PAGES. The following items/pages are added to the solicitation.

Section 00900

Page i & 1

Section 01000

Project Table of Contents, Pages 1 and 2

Submittal Register, Pages 1 thru 22

2. Am-0001, Standard Form 30, Item 1a, Section 00700, incorrectly stated Clause 52.225-12 as being revised. It should read Clause 52.211-12 as being revised.

3. The bid opening date of September 10, 2001, is hereby extended to September 13, 2001, 2:00 P.M., Hawaiian Standard Time.

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SECTION 00900

MISCELLANEOUS ATTACHMENTS

1. QUESTIONS AND ANSWERS

RESPONSES TO QUESTION
SUBMITTED BY PLANHOLDER
FOR
IFB NO. DACA83-01-B-0004

Q1. Sheet A-5 first floor girds B-C shows 1 type A window. Sheet A-18 elevations grid B-C show 2 type A windows at this location? Is there one or two windows?

A1. There is only one Type A window.

Q2. Sheet E-14, the floor plan references "CATV Riser type A&C", what are the differences between Riser A and Riser C.

A2. Sheet E-14, CATV Riser types A and C are for different construction and utilize different backboxes.

Q3. Refer to sheet A5 first floor plan. Doors 103, 105, 111 and 112 appear to have frames with sidelites. Are these existing that remain? All other floors detail frame types for door openings. Please indicate if these are new or existing door frames. If new are they type D, D1 or E as shown on sheet A-B.

A3. Doors 103, 105, 111 and 112 are all new doors as scheduled with no sidelites. These doors are to receive new frames as scheduled. The Type "D, D.1 or E" indicates window types with sidelites.

PROJECT TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

01090 SOURCES FOR REFERENCE PUBLICATIONS
01320 PROJECT SCHEDULE
01330 SUBMITTAL PROCEDURES
01430 ENVIRONMENTAL PROTECTION
01451 CONTRACTOR QUALITY CONTROL
01572 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT
01600 YEAR 2000 COMPLIANCE
01780 CLOSEOUT SUBMITTALS
01900 MISCELLANEOUS PROVISIONS

DIVISION 02 - SITE WORK

02220 DEMOLITION
02316 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITIES SYSTEMS
02364 TERMITICIDE TREATMENT MEASURES FOR SUBTERRANEAN TERMITE CONTROL
02555 PREFABRICATED UNDERGROUND DISTRIBUTION SYSTEM
02821 FENCING
02921 SEEDING
02930 EXTERIOR PLANTING

DIVISION 03 - CONCRETE

03307 CONCRETE FOR MINOR STRUCTURES
03930 CONCRETE REHABILITATION

DIVISION 04 - MASONRY

04200 MASONRY

DIVISION 05 - METALS

05500 MISCELLANEOUS METAL

DIVISION 06 - WOODS & PLASTICS

06100 ROUGH CARPENTRY
06200 FINISH CARPENTRY

DIVISION 07 - THERMAL & MOISTURE PROTECTION

07840 FIRESTOPPING
07900 JOINT SEALING

DIVISION 08 - DOORS & WINDOWS

08110 STEEL DOORS AND FRAMES
08210 WOOD DOORS
08520 ALUMINUM WINDOWS
08700 BUILDERS' HARDWARE
08810 GLASS AND GLAZING
08850 FRAGMENT RETENTION FILM FOR GLASS

DIVISION 09 - FINISHES

09250 GYPSUM WALLBOARD
09310 CERAMIC TILE
09510 ACOUSTICAL CEILINGS
09650 RESILIENT FLOORING
09680 CARPET
09720 WALLCOVERINGS
09900 PAINTING, GENERAL
09915 COLOR SCHEDULE

DIVISION 10 - SPECIALTIES

10100 VISUAL COMMUNICATIONS SPECIALTIES
10160 TOILET PARTITIONS
10201 METAL WALL AND DOOR LOUVERS
10440 SIGNAGE
10800 TOILET ACCESSORIES

DIVISION 12 - FURNISHINGS

12320 CABINETS AND COUNTERTOPS
12490 WINDOW TREATMENT

DIVISION 13 - SPECIAL CONSTRUCTION

13851 FIRE DETECTION AND ALARM SYSTEM, ADDRESSABLE

DIVISION 14 - CONVEYING SYSTEMS

14210 ELEVATORS, ELECTRIC

DIVISION 15 - MECHANICAL

15070 SEISMIC PROTECTION FOR MECHANICAL EQUIPMENT
15080 THERMAL INSULATION FOR MECHANICAL SYSTEMS
15400 PLUMBING, GENERAL PURPOSE
15650 CENTRAL REFRIGERATED AIR-CONDITIONING SYSTEM
15895 AIR SUPPLY, DISTRIBUTION, VENTILATION, AND EXHAUST SYSTEM
15950 HEATING, VENTILATING AND AIR CONDITIONING (HVAC) CONTROL SYSTEMS
15990 TESTING, ADJUSTING, AND BALANCING OF HVAC SYSTEMS

DIVISION 16 - ELECTRICAL

16070 SEISMIC PROTECTION FOR ELECTRICAL EQUIPMENT
16120 INSULATED WIRE AND CABLE
16375 ELECTRICAL DISTRIBUTION SYSTEM, UNDERGROUND
16415 ELECTRICAL WORK, INTERIOR
16782 CABLE TELEVISION SYSTEM

-- End of Project Table of Contents --

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PN55818

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FY01 BUP BARRACKS REPAIR BLDG 503A, FORT SHAFTER, OAHU, HAWAII

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEWER	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		DATE FWD TO APPR AUTH/	APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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		01320	SD-01 Preconstruction Submittals														
			Preliminary Project Schedule	1.2	G												
			Initial Project Schedule	3.4.2	G												
			Periodic Schedule Updates	3.4.3	G												
			SD-03 Product Data														
			Qualifications	1.2	G												
			Narrative Report	3.5.2	FIO												
			Schedule Reports	3.5.4	FIO												
		01430	SD-01 Preconstruction Submittals														
			Environmental Protection Plan	1.4	G												
		01572	SD-01 Preconstruction Submittals														
			Construction Waste Management Plan	1.4.3	G												
			Recycling Facility Permits	1.3	FIO												
		01600	SD-03 Product Data														
			Inventory of Y2K Compliant Equipment	1.4	FIO												
		01780	SD-11 Closeout Submittals														
			As-Built Drawings	1.2.1	FIO												
			As-Built Record of Equipment and Materials	1.2.2	FIO												
			Warranty Management Plan	1.3.1	FIO												
			Warranty Tags	1.3.5	FIO												
			Final Clean-up	1.6	FIO												
		01900	SD-01 Preconstruction Submittals														
			Progress Chart	1.5	G												

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		01900	Inspection of Existing Conditions	1.6	FIO												
			Dust Control	1.8	G												
			Excavation/Trenching Clearance	1.2	FIO												
			Condition of Contractor's Operation or Storage Area	1.3	FIO												
			SD-03 Product Data														
			Recovered Material Report	1.16	FIO												
			SD-07 Certificates														
			Products Containing Recovered Materials	1.15	FIO												
			SD-11 Closeout Submittals														
			As-Built Drawings	1.7	FIO												
		02220	SD-03 Product Data														
			Work Plan		G												
		02316	SD-06 Test Reports														
			Field Density Tests	3.4.3	FIO												
			Testing of Backfill Materials	3.4.2	FIO												
		02364	SD-03 Product Data														
			Termiticide Application Plan		FIO												
			Termiticides	2.1	FIO												
			Verification of Measurement	3.5	FIO												
			Application Equipment	3.4.1	FIO												
			SD-04 Samples														
			Termiticides	2.1	FIO												
			SD-06 Test Reports														

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		02364	Equipment Calibration and Tank Measurement	3.4.1	FIO												
			SD-07 Certificates														
			Qualifications	1.2	FIO												
		02555	SD-02 Shop Drawings														
			Distribution System	3.4.9	G												
			SD-03 Product Data														
			Distribution System	3.4.9	FIO												
			SD-07 Certificates														
			Distribution System	3.4.9	FIO												
			Welding	1.6	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Distribution System	3.4.9	FIO												
		02821	SD-07 Certificates														
			Chain Link Fence	2.1.1	FIO												
		02921	SD-03 Product Data														
			Equipment	3.1.2	FIO												
			Equipment	3.1.2	FIO												
			Chemical Treatment Material	1.4.3	FIO												
			Delivery	1.4.1	FIO												
			Finished Grade and Topsoil	3.2.1	FIO												
			Topsoil	2.2	FIO												
			Quantity Check	3.4	FIO												
			Seed Establishment Period	3.8	FIO												
			Maintenance Record	3.8.3.5	FIO												

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		02921	Application of Pesticide	3.5	FIO												
			SD-04 Samples														
			Delivered Topsoil	1.4.1.1	FIO												
			Soil Amendments	2.3	FIO												
			Mulch	2.4	FIO												
			SD-06 Test Reports														
			Equipment Calibration	3.1.2	FIO												
			Soil Test	3.1.3	FIO												
			SD-07 Certificates														
			Seed	2.1	FIO												
			Topsoil	2.2	FIO												
			pH Adjuster	2.3.1	FIO												
			Fertilizer	2.3.2	FIO												
			Organic Material	2.3.4	FIO												
			Soil Conditioner	2.3.5	FIO												
			Mulch	2.4	FIO												
			Pesticide	2.6	FIO												
		02930	SD-02 Shop Drawings														
			Shop Drawings	3.3.1	FIO												
			Finished Grade, Topsoil and Underground Utilities	3.2.1	FIO												
			SD-03 Product Data														
			Chemical Treatment Material	1.4.3.2	FIO												
			Equipment	3.7.2	FIO												
			Delivery	1.4.1	FIO												
			Plant Establishment Period	3.9	G												

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		02930	Maintenance Record	3.9.2.6	FIO												
			Application of Pesticide	3.7	FIO												
			SD-04 Samples														
			Delivered Topsoil	1.4.1.3	FIO												
			Soil Amendments	3.1.2.2	FIO												
			SD-06 Test Reports														
			Soil Test	3.1.2.2	FIO												
			Percolation Test	3.1.2.1	FIO												
			SD-07 Certificates														
			Plant Material	2.1	FIO												
			Topsoil	2.2	FIO												
			pH Adjuster	2.3.1	FIO												
			Fertilizer	2.3.2	FIO												
			Organic Material	2.3.3	FIO												
			Soil Conditioner	2.3.4	FIO												
			Inorganic Mulch	2.4	FIO												
			Pesticide	2.10	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Maintenance Instructions	3.9.5	FIO												
		03307	SD-03 Product Data														
			Water-Reducing or Retarding	2.1.3.1	FIO												
			Admixture														
			Curing Materials	2.1.10	FIO												
			Reinforcing Steel	2.1.5	FIO												

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		03307	Joint Sealants - Field Molded Sealants	2.1.6	FIO												
			Batching and Mixing Equipment	3.1.5.3	FIO												
			Conveying and Placing Concrete	3.2	FIO												
			SD-06 Test Reports														
			Aggregates	2.1.2	FIO												
			Concrete Mixture Proportions	1.3.3	FIO												
			SD-07 Certificates														
			Cementitious Materials	2.1.1	FIO												
			Aggregates	2.1.2	FIO												
		03930	SD-05 Design Data														
			Job mix formula	1.4.1.1	FIO												
			SD-06 Test Reports														
			aggregate	2.1.3	FIO												
			Epoxy resin binder	2.1.1.1	FIO												
			Epoxy grout	2.1.1.2	FIO												
			SD-07 Certificates														
			Epoxy resin binder	2.1.1.1	FIO												
			Epoxy grout	2.1.1.2	FIO												
			SD-08 Manufacturer's Instructions														
			Epoxy	2.1.1	FIO												
		04200	SD-02 Shop Drawings														
			Masonry Work		FIO												
			SD-04 Samples														
			Concrete Masonry Units (CMU)	2.2	FIO												
			SD-06 Test Reports														

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		04200	Masonry Cement	2.3	FIO												
			SD-07 Certificates														
			Concrete Masonry Units (CMU)	2.2	FIO												
			Reinforcing Steel Bars and Rods	2.5	FIO												
			Masonry Cement	2.3	FIO												
			Mortar Admixtures	2.3.1	FIO												
			Grout Admixtures	2.4.1	FIO												
		05500	SD-02 Shop Drawings														
			Miscellaneous Metal Items	1.6	FIO												
		06100	SD-07 Certificates														
			Grading and Marking	2.1.1	FIO												
		06200	SD-02 Shop Drawings														
			Finish Carpentry		FIO												
			SD-04 Samples														
			Plastic laminate	2.3	FIO												
		07840	SD-02 Shop Drawings														
			Firestopping Materials	2.1	FIO												
			SD-07 Certificates														
			Firestopping Materials	2.1	FIO												
			Installer Qualifications	1.5	FIO												
			Inspection	3.3	FIO												
		07900	SD-03 Product Data														
			Backing	2.1	FIO												
			Bond-Breaker	2.2	FIO												
			Sealant	2.4	FIO												
			SD-07 Certificates														

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		07900	Sealant	2.4	FIO												
		08110	SD-02 Shop Drawings														
			Doors and Frames	2.1	FIO												
			SD-03 Product Data														
			Fire Rated Doors and Windows	2.2	FIO												
			SD-07 Certificates														
			Fire Rated Doors and Windows	2.2	FIO												
			Galvanization		FIO												
		08210	SD-02 Shop Drawings														
			Wood Doors		FIO												
			SD-07 Certificates														
			Adhesives	2.1.3	FIO												
		08520	SD-02 Shop Drawings														
			Aluminum Windows	3.1	FIO												
			Insect Screens	2.3	FIO												
			SD-03 Product Data														
			Aluminum Windows	3.1	FIO												
			Aluminum Windows	3.1	FIO												
			SD-04 Samples														
			Aluminum Windows	3.1	FIO												
			SD-06 Test Reports														
			Aluminum Windows	3.1	FIO												
			SD-07 Certificates														
			Aluminum Windows	3.1	FIO												
		08700	SD-02 Shop Drawings														
			Exit Devices	2.5	FIO												

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		08700	SD-03 Product Data														
			Exit Device Accessories	2.5	FIO												
			Card Key Access Control System	2.4.2	FIO												
			Hardware Schedule	1.3	FIO												
			Keying	2.6	G												
			SD-07 Certificates														
			Hardware and Accessories		FIO												
		08810	SD-02 Shop Drawings														
			Installation	3.2	FIO												
			SD-03 Product Data														
			Glazing Accessories	2.3	FIO												
			SD-04 Samples														
			Laminated Glass	2.1.1	FIO												
			Fire/Safety Rated Glass	2.2	FIO												
			SD-07 Certificates														
			Laminated Glass	2.1.1	FIO												
			Fire/Safety Rated Glass	2.2	FIO												
		08850	SD-03 Product Data														
			Fragment Retention Film	2.2	G												
			Fragment Retention Film	2.2	G												
			Fragment Retention Film	2.2	G												
			SD-04 Samples														
			Fragment Retention Film	2.2	FIO												
			SD-06 Test Reports														
			Fragment Retention Film	2.2	FIO												
			SD-07 Certificates														

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		08850	Fragment Retention Film	2.2	FIO												
		09250	SD-02 Shop Drawings														
			Steel Framing	2.4.1	FIO												
			Steel Framing	3.1	FIO												
			Control Joints	3.1.2	FIO												
			Fire-Resistant Assemblies	3.5	FIO												
			SD-07 Certificates														
			Gypsum Wallboard	2.3.1	FIO												
			Gypsum Wallboard	3.5	FIO												
			Steel Framing	2.4.1	FIO												
			Steel Framing	3.1	FIO												
			Fire-Rated Gypsum Board	2.2.2	FIO												
		09310	SD-03 Product Data														
			Tile	2.1	FIO												
			Tile	2.1	FIO												
			Setting-Bed	2.2	FIO												
			Mortar and Grout	2.4	FIO												
			Mortar and Grout	2.4	FIO												
			SD-04 Samples														
			Tile	2.1	FIO												
			SD-07 Certificates														
			Tile	2.1	FIO												
			Mortar and Grout	2.4	FIO												
		09510	SD-02 Shop Drawings														
			Approved Detail Drawings	1.3	FIO												
			SD-04 Samples														

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		09510	Acoustical Units	2.1	FIO												
			SD-06 Test Reports														
			Ceiling Attenuation Class and Test	2.6	FIO												
			SD-07 Certificates														
			Acoustical Units	2.1	FIO												
		09650	SD-03 Product Data														
			Vinyl-Composition Tile		FIO												
			Adhesive		FIO												
			SD-04 Samples														
			Flooring	3.2	FIO												
			SD-06 Test Reports														
			Moisture Test	3.3	FIO												
		09680	SD-02 Shop Drawings														
			Installation	3.4	FIO												
			Molding	2.3	FIO												
			SD-03 Product Data														
			Carpet	1.3	FIO												
			Carpet	2.1	FIO												
			Carpet	2.1.1	FIO												
			Carpet	3.1	FIO												
			Surface Preparation	3.1	FIO												
			Installation	3.4	FIO												
			Regulatory Requirements	1.3	FIO												
			SD-04 Samples														
			Carpet	1.3	FIO												

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		09680	Carpet	2.1	FIO												
			Carpet	2.1.1	FIO												
			Carpet	3.1	FIO												
			Molding	2.3	FIO												
			SD-06 Test Reports														
			Moisture and Alkalinity Tests	3.2	FIO												
			SD-07 Certificates														
			Carpet	1.3	FIO												
			Carpet	2.1	FIO												
			Carpet	2.1.1	FIO												
			Carpet	3.1	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Carpet	1.3	FIO												
			Carpet	2.1	FIO												
			Carpet	2.1.1	FIO												
			Carpet	3.1	FIO												
			Cleaning and Protection	3.5	FIO												
		09720	SD-03 Product Data														
			Wallcoverings	2.1	FIO												
			Manufacturer's Instructions	3.2	FIO												
			Installation	3.3	FIO												
			Maintenance	1.5	FIO												
			Clean-Up	3.4	FIO												
			SD-04 Samples														
			Wallcoverings	2.1	FIO												

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		09720	SD-07 Certificates														
			Wallcoverings	2.1	FIO												
		09900	SD-03 Product Data														
			Paint	2.1	FIO												
			Mixing and Thinning	3.3	FIO												
			Application	3.4	FIO												
			SD-06 Test Reports														
			Paint	2.1	FIO												
			SD-07 Certificates														
			Lead	2.1.3	FIO												
			Mildewcide and Insecticide	2.1.2	FIO												
		09915	SD-04 Samples														
			Color Schedule	2.2	G												
		10100	SD-03 Product Data														
			Visual Display Boards		FIO												
		10160	SD-02 Shop Drawings														
			Approved Detail Drawings	1.3	FIO												
			SD-03 Product Data														
			Toilet Partition System	1.3	FIO												
			Toilet Partition System	2.3	FIO												
			SD-04 Samples														
			Toilet Partition System	1.3	FIO												
			Toilet Partition System	2.3	FIO												
		10201	SD-02 Shop Drawings														
			Wall louvers	2.2	FIO												
			SD-03 Product Data														

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		10201	Wall louvers	2.2	FIO												
			Door louvers	2.3	FIO												
		10440	SD-02 Shop Drawings														
			Detail Drawings	3.1	FIO												
			SD-03 Product Data														
			Installation	3.1	FIO												
			SD-04 Samples														
			Signage	1.3	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Approved Manufacturer's	3.1	G												
			Instructions														
			Protection and Cleaning	3.1.2	FIO												
		10800	SD-03 Product Data														
			Finishes	2.1.2	FIO												
			Accessory Items	2.2	FIO												
			SD-04 Samples														
			Finishes	2.1.2	FIO												
			Accessory Items	2.2	FIO												
		12320	SD-02 Shop Drawings														
			Installation	3.1	FIO												
			SD-03 Product Data														
			Cabinets	2.1	FIO												
			Countertops and Backsplash	2.2	FIO												
			SD-04 Samples														
			Cabinets	2.1	FIO												

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		12320	Countertops and Backsplash	2.2	FIO												
			SD-06 Test Reports														
			Cabinets and Countertops		FIO												
		12490	SD-02 Shop Drawings														
			Approved Detail Drawings	3.2	FIO												
			SD-03 Product Data														
			Window Treatments	3.2	FIO												
			Hardware	1.3	FIO												
			SD-04 Samples														
			Window Treatments	3.2	FIO												
		13851	SD-02 Shop Drawings														
			Fire Alarm Reporting System	1.4.1	G												
			SD-03 Product Data														
			Storage Batteries	2.2	G												
			Voltage Drop		G												
			Special Tools and Spare Parts	2.7.3	G												
			Technical Data and Computer	1.5	G												
			Software														
			Training	3.5	G												
			Testing	3.4	G												
			SD-06 Test Reports														
			Testing	3.4	G												
			SD-07 Certificates														
			Equipment	2.7	G												
			Qualifications	1.3.7	G												

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		13851	SD-10 Operation and Maintenance Data														
			Technical Data and Computer Software	1.5	G												
		14210	SD-02 Shop Drawings Elevator System	3.4	G												
			SD-03 Product Data Operator Training	3.5	FIO												
			Elevator System	3.4	FIO												
			Framed Instructions	3.4	FIO												
			Qualifications	1.3	FIO												
			SD-04 Samples Finishes		FIO												
			SD-10 Operation and Maintenance Data														
			Elevator System	3.4	G												
		15070	SD-02 Shop Drawings Coupling and Bracing	3.1	FIO												
			Flexible Couplings or Joints	3.3	FIO												
			Equipment Requirements	1.3	FIO												
			Contractor Designed Bracing RE	1.2.4	G FIO												
			SD-03 Product Data Coupling and Bracing	3.1	G												
			RE		FIO												
			Equipment Requirements	1.3	G												

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		15070	Contractor Designed Bracing	1.2.4	G												
			SD-07 Certificates														
			Flexible Ball Joints	2.2	FIO												
		15080	SD-04 Samples														
			Thermal Insulation Materials		FIO												
		15400	SD-02 Shop Drawings														
			Plumbing System	3.8.1	FIO												
			Electrical Schematics		FIO												
			SD-03 Product Data														
			Welding	1.3.1	FIO												
			Plumbing Fixture Schedule	3.9	G RE												
			Vibration-Absorbing Features	3.4	FIO												
			Plumbing System	3.8.1	FIO												
			SD-06 Test Reports														
			Tests, Flushing and Disinfection	3.8	FIO												
			Backflow Prevention Assembly		FIO												
			Tests														
			SD-07 Certificates														
			Materials and Equipment		FIO												
			Bolts	2.1.1	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Plumbing System	3.8.1	FIO												
		15650	SD-02 Shop Drawings														
			Drawings	1.7.2	FIO												
			Installation	3.1	FIO												

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		15650	SD-03 Product Data														
			Refrigeration System	3.1.1	FIO												
			Water Treatment Systems	2.7	FIO												
			Spare Parts		FIO												
			Qualifications	1.4	FIO												
			Printed Instructions	3.1.3.6	FIO												
			Printed Instructions	3.5	FIO												
			Verification of Dimensions	1.7.1	FIO												
			Manufacturer's Multi-Year Compressor Warranty	1.8	FIO												
			Tests	3.2	FIO												
			Demonstrations	3.5	FIO												
			SD-06 Test Reports														
			Field Tests	3.2.1	FIO												
			System Performance Tests	3.2.2	FIO												
			Chilled Water Quality Tests		FIO												
			SD-07 Certificates														
			Refrigeration System	3.1.1	FIO												
			SD-10 Operation and Maintenance Data														
			Operation Manual		FIO												
			Maintenance Manuals	3.5	FIO												
			Water Treatment Systems	2.7	FIO												
		15895	SD-02 Shop Drawings														
			Drawings	3.1.8	FIO												
			Installation	3.1	FIO												

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		15895	SD-03 Product Data														
			Components and Equipment	2.1	FIO												
			Test Procedures	2.11.1	FIO												
			Welding Procedures	3.1.1.1	FIO												
			System Diagrams		FIO												
			Similar Services		FIO												
			Welding Joints		FIO												
			Testing, Adjusting and Balancing	3.5	FIO												
			Field Training	3.7	FIO												
			SD-06 Test Reports														
			Performance Tests	3.6	FIO												
			SD-07 Certificates														
			Bolts	2.5.2.2	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Operating and Maintenance	3.7	FIO												
			Instructions														
		15950	SD-02 Shop Drawings														
			Drawings	1.3.2	FIO												
			SD-03 Product Data														
			HVAC Control System	1.5	FIO												
			Service Organizations	2.1	FIO												
			Equipment Compliance Booklet	1.6	FIO												
			Training Course Requirements	3.5.1	FIO												
			SD-10 Operation and Maintenance														
			Data														

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		15950	Operation Manual	1.5	FIO												
			Maintenance and Repair Manual	1.6	FIO												
		15990	SD-02 Shop Drawings														
			TAB Schematic Drawings and Report Forms	3.3	G RE												
			SD-03 Product Data														
			TAB Related HVAC Submittals	3.2	FIO												
			TAB Procedures	3.5.1	G RE												
			Calibration	1.4	FIO												
			Systems Readiness Check	3.5.2	FIO												
			TAB Execution	3.5.1	G RE												
			TAB Verification	3.5.4	G RE												
			SD-06 Test Reports														
			Design Review Report	3.1	G RE												
			Systems Readiness Check	3.5.2	G RE												
			TAB Report	3.5.3	G RE												
			TAB Verification Report	3.5.4	G RE												
			SD-07 Certificates														
			Ductwork Leak Testing	3.4	FIO												
			TAB Firm	1.5.1	G RE												
			TAB Specialist	1.5.2	G RE												
		16070	SD-02 Shop Drawings														
			Lighting Fixtures in Buildings	3.2	G												
			Equipment Requirements	1.4	G												
			SD-03 Product Data														
			Lighting Fixtures in Buildings	3.2	G												

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ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEWER	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		DATE FWD TO APPR AUTH/	APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
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SUBMITTAL REGISTER

CONTRACT NO.
PN55818

TITLE AND LOCATION

FY01 BUP BARRACKS REPAIR BLDG 503A, FORT SHAFTER, OAHU, HAWAII

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEWER	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
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DIVISION 08 - DOORS & WINDOWS

SECTION 08520

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SECTION 08520

ALUMINUM WINDOWS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

ALUMINUM ASSOCIATION (AA)

AA DAF-45 (1997) Designation System for Aluminum Finishes

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

AAMA 101 (1997) Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 167 (1999) Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip

ASTM E 283 (1991) Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

ASTM E 330 (1997e1) Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference

ASTM E 331 (1996) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference

ASTM E 547 (1996) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential

INSECT SCREENING WEAVERS ASSOCIATION (ISWA)

ISWA IWS 089 (1990) Recommended Standards and Specifications for Insect Wire Screening (Wire Fabric)

IRON AND STEEL SOCIETY (ISS)

ISS S&HRS Manual (1990) Steel Products Manual - Stainless
and Heat Resisting Steels

NATIONAL FENESTRATION RATING COUNCIL (NFRC)

NFRC 100 (1997) Procedure for Determining
Fenestration Product U-factors

NFRC 200 (1997) Procedure for Determining
Fenestration Product Solar Heat Gain
Coefficients at Normal Incidence

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 101 (2000) Safety to Life From Fire in
Buildings and Structure

SCREEN MANUFACTURERS ASSOCIATION (SMA)

SMA ANSI/SMA 1004 (1987) Aluminum Tubular Frame Screens for
Windows

1.2 WINDOW PERFORMANCE

Aluminum windows shall meet the following performance requirements.
Testing requirements shall be performed by an independent testing
laboratory or agency.

1.2.1 Structural Performance

Structural test pressures on window units shall be for positive load
(inward) and negative load (outward) in accordance with ASTM E 330. After
testing, there shall be no glass breakage, permanent damage to fasteners,
hardware parts, support arms or actuating mechanisms or any other damage
which could cause window to be inoperable. There shall be no permanent
deformation of any main frame, sash or ventilator member in excess of the
requirements established by AAMA 101 for the window types and
classification specified in this section.

1.2.2 Air Infiltration

Air infiltration shall not exceed the amount established by AAMA 101 for
each window type when tested in accordance with ASTM E 283.

1.2.3 Water Penetration

Water penetration shall not exceed the amount established by AAMA 101 for
each window type when tested in accordance with ASTM E 547 and ASTM E 331.

1.2.4 Life Safety Criteria

Windows shall conform to NFPA 101 Life Safety Code when rescue and/or
second means of escape are indicated.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation;
submittals not having a "G" designation are for information only. When
used, a designation following the "G" designation identifies the office

that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Aluminum Windows
Insect Screens

Drawings indicating elevations of window, rough-opening dimensions for each type and size of window, full-size sections, thicknesses of metal, fastenings, methods of installation and anchorage, connections with other work, type of wall construction, size and spacing of anchors, method of glazing, types and locations of operating hardware, mullion details, weatherstripping details, screen details including method of attachment, and window schedules showing locations of each window type.

SD-03 Product Data

Aluminum Windows

Manufacturer's descriptive data and catalog cut sheets.

Aluminum Windows

Manufacturer's preprinted installation instructions and cleaning instructions.

SD-04 Samples

Aluminum Windows

Manufacturer's standard color samples of the specified finishes.

SD-06 Test Reports

Aluminum Windows

Reports for each type of aluminum window attesting that identical windows have been tested and meet all performance requirements established under paragraph WINDOW PERFORMANCE.

SD-07 Certificates

Aluminum Windows

Certificates stating that the aluminum windows are AAMA certified conforming to requirements of this section. Labels or markings permanently affixed to the window will be accepted in lieu of certificates. Product ratings determined using NFRC 100 and NFRC 200 shall be authorized for certification and properly labeled by the manufacturer.

1.4 QUALIFICATION

Window manufacturer shall specialize in designing and manufacturing the type of aluminum windows specified in this section, and shall have a minimum of 5 years of documented successful experience. Manufacturer shall have the facilities capable of meeting contract requirements, single-source

responsibility and warranty.

1.5 MOCK-UPS

Before fabrication, full-size mock-up of each type of aluminum window complete with glass and AAMA certification label for structural purposes and quality of hardware operation.

1.6 DELIVERY AND STORAGE

Aluminum windows shall be delivered to project site and stored in accordance with manufacturer's recommendations. Damaged windows shall be replaced with new windows.

1.7 WARRANTY

Manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period shall be provided.

PART 2 PRODUCTS

2.1 ALUMINUM WINDOW TYPES

Aluminum windows shall consist of complete units including sash, glass, frame, weatherstripping, and hardware. Windows shall conform to AAMA 101. Windows shall be single-glazed. Operable windows shall permit cleaning the outside glass from inside the building.

2.1.1 Awning/Hopper/Projected Windows

Aluminum awning (A), hopper and projected windows shall conform to AAMA 101 Designation A-C40, P-C40 type consisting of hinged ventilators arranged in a single or vertical series within a common frame. Ventilators shall be operated by a device which shall securely close the ventilator at both jambs without the use of additional manually-controlled locking device equipped with concealed four-bar friction hinges. Operating hardware, except ventilator arms and rotary operators, shall be concealed within frame and sill. Ventilator arms shall be concealed when windows are closed.

2.1.2 Casement Windows

Aluminum casement (C) windows shall conform to AAMA 101 Designation C40 type with ventilators which swing on side jamb. Hinges shall be butt (close-up) type. Operators shall be as required for hinge type. Devices shall be provided to secure ventilators tightly in the frame in the closed position.

2.1.3 Fixed Windows

Aluminum fixed (F) windows shall conform to AAMA 101 F-C40 type, non-operable glazed frame, complete with provisions for reglazing in the field.

2.2 WEATHERSTRIPPING

Weatherstripping for ventilating sections shall be of type designed to meet water penetration and air infiltration requirements specified in this section in accordance with AAMA 101, and shall be manufactured of material

compatible with aluminum and resistant to weather. Weatherstrips shall be factory-applied and easily replaced in the field. Neoprene or polyvinylchloride weatherstripping are not acceptable where exposed to direct sunlight.

2.3 INSECT SCREENS

Insect screens shall be aluminum window manufacturer's standard design, and shall be provided where scheduled on drawings. Insect screens shall be fabricated of roll-formed tubular-shaped aluminum frames conforming to SMA ANSI/SMA 1004 and (18 x 16) aluminum mesh screening conforming with ISWA IWS 089, Type III.

2.4 ACCESSORIES

2.4.1 Fasteners

Fastening devices shall be window manufacturer's standard design made from aluminum, non-magnetic stainless steel, cadmium-plated steel, nickel/chrome-plated steel in compliance with AAMA 101. Self-tapping sheet metal screws will not be acceptable for material thicker than 1/16 inch.

2.4.2 Hardware

Hardware shall be as specified for each window type and shall be fabricated of aluminum, stainless steel, cadmium-plated steel, zinc-plated steel or nickel/chrome-plated steel in accordance with requirements established by AAMA 101.

2.4.3 Window Anchors

Anchoring devices for installing windows shall be made of aluminum, cadmium-plated steel, stainless steel, or zinc-plated steel conforming to AAMA 101.

2.4.4 Subframe Receptors

Furnish extruded aluminum subframe receptors.

2.5 GLASS AND GLAZING

Aluminum windows shall be designed for inside glazing, field glazing, and for glass types scheduled on drawings and specified in Section 08810 GLASS AND GLAZING. Units shall be complete with glass and glazing provisions to meet AAMA 101. Glazing material shall be compatible with aluminum, and shall not require painting.

2.6 FINISH

2.6.1 Anodized Aluminum Finish

Exposed surfaces of aluminum windows shall be finished with anodic coating conforming to AA DAF-45: Architectural Class I, AA-M10-C22-A44, color anodic coating, 0.7 mil or thicker. Finish shall be free of scratches and other blemishes.

2.6.2 Color

Color shall be in accordance with Section 09915 COLOR SCHEDULE.

PART 3 EXECUTION

3.1 INSTALLATION

Aluminum windows shall be installed in accordance with approved shop drawings and manufacturer's published instructions. Aluminum surfaces in contact with masonry, concrete, wood and dissimilar metals other than stainless steel, zinc, cadmium or small areas of white bronze, shall be protected from direct contact using protective materials recommended by AAMA 101. The completed window installation shall be watertight in accordance with Section 07900 JOINT SEALING. Glass and glazing shall be installed in accordance with requirements of this section and Section 08810 GLASS AND GLAZING. All fasteners and subframe anchors shall be corrosive resisting material compatible with aluminum or Type 316 stainless steel conforming to ISS S&HRS Manual and ASTM A 167, type and size as specified or otherwise approved for the applicable requirement.

3.2 ADJUSTMENTS AND CLEANING

3.2.1 Hardware Adjustments

Final operating adjustments shall be made after glazing work is complete. Operating sash or ventilators shall operate smoothly and shall be weathertight when in locked position.

3.2.2 Cleaning

Aluminum window finish and glass shall be cleaned on exterior and interior sides in accordance with window manufacturer's recommendations. Alkaline or abrasive agents shall not be used. Precautions shall be taken to avoid scratching or marring window finish and glass surfaces.

-- End of Section --